

Acronal[®] 4160

Chemical Nature **Aqueous styrene-acrylate copolymer dispersion for the manufacture of waterproofing membranes**

Properties

Typical Properties	Solids content	%	ca. 45
	pH		ca. 7.5
	Viscosity at 73 °F (Brookfield RV, Spindle #2, at 20 rpm)	cps	ca. 350
Other properties of the dispersion	Density at 23 °C	lbs/gal g/cm ³	8.6 1.03
	Type of dispersion		anionic
	Particle Size	micron	ca. 0.1
	Odor		Low
	Freeze-thaw stability	0 °F	not stable
Properties of the film	Surface		tack-free
	Glass transition temperature (DSC)	°C	ca. 38

* The above values should not be taken as specification

Application

Features Acronal 4160 is a low VOC, non-APEO, styrene-acrylate copolymer dispersion recommended for use in waterproofing membranes. Due to its high glass transition temperature (T_g), a film forming aid is required in formulations to ensure desired polymer particle coalescence (i.e. film formation). Dry films produced from Acronal 4160 are strong and water resistant.

Processing Although Acronal 4160 is protected from attack by microorganisms, preservatives must be added to the produced formulations in order to ensure that their quality remains unimpaired over long storage periods. Prior experiment is essential for checking their compatibility and efficiency.

Safety

General The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Safety Data Sheet All safety information is provided in the Safety Data Sheet for Acronal 4160.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

Important

The descriptions, designs, and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE.** Further, you expressly understand and agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk.

Acronal is a registered trademark of BASF Group.

© BASF Corporation, 2018



BASF Corporation is fully committed to the Responsible Care® Initiative in the USA, Canada, and Mexico. For more information on Responsible Care® go to:
U.S.: www.basf.us/responsiblecare_usa
Canada: www.basf.us/responsiblecare_canada
México: www.basf.us/responsiblecare_mexico

BASF Corporation
Dispersions and Resins
11501 Steele Creek Road
Charlotte, North Carolina 28273
Phone: (800) 251 – 0612
CustCare-Charlotte@basf.com
Email: edtech_info@basf.com
www.basf.us/dpsolutions